

30155
S/609/61/000/003/003/008
D039/D112

An investigation of the ...

for the F region. In Khar'kov itself, observations were made from March to August 1959; investigation of the F layer was based on 235 recordings. The measurements made during the period Dec 1958 - Dec 1959 show that in the E zone the velocity of the drift of heterogeneities varies from 10 to 230 m/sec. The most frequently encountered values lie between 40 and 100 m/sec. The main direction of the drift was found to be western and southern with some deviations toward the east and the north. The most frequently encountered values of the drift velocity for spring and summer are 40-80 m/sec, and for winter and autumn 60-100 m/sec. For the F region, the drift velocities vary from 10 to 280 m/sec, most values lying between 30 and 100 m/sec. The main direction of the drift is western and eastern with some northern deviations. The most frequent values of the drift velocity are 40 ± 70 m/sec for spring and summer and 70 ± 90 m/sec for autumn and winter. Numerical data are given on the directional distribution of the heterogeneities according to season for both the E and the F regions. For the F₂ layer, investigated at the Khar'kov Polytechnic Institute, it was found that the drift velocities lay between 10 and 100 m/sec, most values being 30 ± 50 m/sec. The main drift

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directions were north-western and south-western at daytime and south-western and south-eastern at night. A comparison of the results obtained at both places in spring 1959 show that they do coincide with regard to the distribution of the drift velocities, but do not with regard to the distribution of the drift directions. The following conclusions were made: (1) in the F region there is a regular drift of ionization heterogeneities having a velocity of 10 to 280 m/sec. In winter and autumn the most frequently encountered velocity values equal 70 ± 90 m/sec, and in summer and spring - 40 ± 70 m/sec; (2) the main directions of the drift of heterogeneities in the F region are western or eastern, with deviation to south-east and north; (3) in the E region the measured values of the drift velocity are within the limits of 10-230 m/sec. The most frequent velocity values in winter and autumn are 60 ± 100 m/sec, and in spring and summer - 40 ± 80 m/sec; (4) in the directions of the drift of heterogeneities in the E region there is a considerable spread according to seasons; (5) the seasonal drift velocities in the E region are somewhat higher than those in the F region. Both authors thank Doctor B.L. Kashcheyev for the supervision of this research work and V.V.

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An investigation of the ...

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Tolstov for his valuable remarks during the preparation of the manuscript. There are 2 figures and 5 references; 3 Soviet-bloc and 2 non-Soviet bloc. The references to the two English-language publications read as follows: S.N. Mitra, Statistical analysis of fading of a single downcoming wave from the ionosphere, Proc. of the I.E.E., 1949, v. 96, p. III, 505.; S.N. Mitra, A Radio Method of Measuring Winds in the Ionosphere, Proc. of the I.E.E., 1949, v. 96, p. III, 441.

ASSOCIATION: Khar'kovskiy politekhnicheskiy institut (Khar'kov Polytechnic Institute).

Card 5/5

39999
S/035/62/000/008/033/090
A001/A101

9.9/10

AUTHORS:

Chegoryan, V. A., Zhebko, V. M.

TITLE:

Investigation of horizontal movements of ionization inhomogeneities
in the ionosphere over Khar'kov during IGY

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 8, 1962, 67 - 68;
abstract 8A450 ("Mezhdunar geofiz. god. Inform. byul.", 1961, no. 3,
24 - 20; English summary)

TEXT: Movements of ionization inhomogeneities in regions E and F of the
ionosphere were investigated at two points (a field laboratory in 85 km from
Khar'kov and the ionospheric station of the Khar'kov Polytechnic Institute) by
the spaced reception method with a small base. In the E region of the ionosphere,
measured values of drift velocities are within the range 10 - 230 m/sec. Most
frequently occurring velocities are 60 - 100 m/sec in winter and autumn and 40 -
80 m/sec in spring and summer. Directions of inhomogeneities movements in the
E region are considerably scattered, depending on the season. Drift velocities of
ionization inhomogeneities in the F region vary from 10 to 280 m/sec. In winter

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Investigation of horizontal...

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A001/A101

and autumn prevail velocities 70 - 90 m/sec, and in spring and summer - 40-70 m/sec.
Dominating drift directions are eastward or westward with deflections to south-
east and north. There are 5 references.

I. Zhulin

[Abstracter's note: Complete translation]

Card 2/2

CHEGORYAN, V.A.; ZHEBKOV, V.M.

Investigating horizontal movements of ionization irregularities in
the ionosphere over Kharkov during the period of the International
Geophysical Cooperation. Mezhdunar.geofiz.god no.3:24-29 '61.
(MIRA 14:10)

I. Khar'kov Polytechnical Institute.
(Ionosphere)

TARAN, V.I.; ZHEBKOV, V.M.

Measuring velocities of the drift of irregularities in the E and F ionospheric layers under ~~the~~ program of the International Geophysical Year. Mezhdunar.geofiz.zod no.3:13-18 '61. (MIRA 14:10)

I. Khar'kov Polytechnical Institute,
(Ionosphere)

ZHEBOKRITS'KIY, V.A.

Certain problems in the history of the southern Slavs in
Iv. Franko's works. Nauk. zap. Kiev.un. 15 no.8:115-125 '56.
(MLRA 10:7)
(Franko, Ivan, 1856-1916) (Balkan Peninsula--History)

ZHEBOKRITSKIY, V. A.

Dissertation defended for the degree of Doctor of Historical Science at
the Institute of Slavic Studies

"Bulgaria on the Eve and During the Time of the Balkan Wars of 1912-1913."

Vestnik Akad. Nauk, No. 4, 1963, pp 119-145

ZHEBORYTS'KYI, V. A.

Paris - Commune, 1871

For the eightieth anniversary of the Paris Commune. Visnyk AN URSR 23 no.3, 1951

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

KOSTENKO, M.P.; ZHEBOKRITSKIY, V.A. [Zhebokryts'kyi, V.A.], kand. ist.
nauk, otv. red.; SALKO, V.Yu., red.; MATVIICHUK, O.A., tekhn.
red.

[Under Bulgarian stars] Pid zoriamy balkans'kymy. Kyiv, 1961.
38 p. (Tovarystvo dla poshyrennia politichnykh i naukovykh
znan' Ukrains'koi RSR. Ser.4, no.12) (MIRA 15:1)
(Bulgaria—Economic conditions)

ZHEBOKRYTS'KYI, Viktor Andreyavich [Zhebokryts'kyi, V.A.]; KULINICH,
I.M., kand.istor.nauk, glavnyy red.

[The People's Republic of Bulgaria] Narodna Respublika Bolgariia.
Kyiv, 1959. 39 p. (Tovarystvo dlia poshyrennia politychnykh i
naukovykh znan' Ukrains'koi RSR. Ser.3, no.10) (MIRA 12:12)
(Bulgaria—Economic conditions)

SAPIRO, L.S., inzh.; ZHEGORITSKIY, V.Ya., inzh.

Semiautomatic welding of metallic structures in a protective water vapor atmosphere. Svar. proizv. no.3:22-24 Mr '62. (MIRA 15:2)

1. Zavod im. 15-letiya Leninskogo kommunisticheskogo soyuza molodezhi Ukrayny.
(Structural frames--Welding) (Protective atmospheres)

CHERKASY, G.V., Cand.tehn.nauk; PIEMAN, A.N., inzh.; CHUMARITOV, Yu.A.;
BAGREMOV, V.M.

Increasing the wearing quality and anticorrosion properties of
piston rings. Trakt. i sel'khoznesh. no.1:38-41 Ja '65.
(MIRA 18:3)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy
promyshlennosti i Spetsializirovannoye konstruktorsko-tehnolo-
gicheskoye byuro pri Odesskom zavode "Kapchast!".

DASHIVSKIY, V.A., inzh.; MAZUR-ZEYGERMAKER, V.G., inzh.; ZHEBRAK, A.O.,
inzh.

Series of low-capacity boilers of unit construction produced
by the Belgorod Boiler Plant. Energomashinostroenie 4 no.2:30-34
F '58 (MIRA 11:4)

(Boilers)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064630004-6

ZHEBRAK, A.R. [deceased]

Gregor Mendel and the laws of heredity. Genetika no.1:6-12 '65.
(MIRA 18:10)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064630004-6"

FEDORENKO, N.P., akademik; SUKACHEV, V.N., akademik; KARAKHEYEV, K.K.; FRANK, G.M.; KONSTANTINOV, B.P., akademik; ASTAUROV, B.L.; YEFIMOV, A.N.; SHUMILOVSKIY, N.N.; ISHLINSKIY, A.Yu., akademik; GERASIMOV, I.P., akademik; KAZARNOVSKIY, I.A.; BYKHOVSKIY, B.Ye., akademik; ZHEBRAK, A.R., akademik

Discussion of the annual report. Vest. AN SSSR 35 no.3:95-112
Mr '65. (MIRA 18:4)

1. President AN Kirgizskoy SSR (for Karakeyev).
2. Chleny-korrespondenty AN SSSR (for Frank, Astaurov, Yefimov, Kazarnovskiy).
3. AN Kirgizskoy SSR (for Shumilovskiy).
4. AN BSSR (for Zhebrak).

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630004-6

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630004-6"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630004-6

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630004-6"

ZHEERAK, A.R.

Remote hybridization and experimental polyploidy in the genus
Triticum. Trudy MOIP. Otd.biol 5:123-133 '62. (MIRA 16:5)

1. Akademiya nauk Belorusskoy SSR, Minsk.
(WHEAT BREEDING) (POLYPLOIDY)

ZHEBRAK, A.R.; NIKOL'SKIY, Yu.K.; DEMENOK, A.M.

Results of the study of productive lines of the amphidiploid
hybrid Triticum durum x Tr. vulgare. Biul. Inst. biol.
AN BSSR no.5:289-298 '60. (MIRA 14:7)

(WHEAT BREEDING)

ZHEZRAK, A.R.; NIKOL'SKIY, Yu.K.; KAZUSHCHIK, V.G.

Characteristics of 56-chromosome amphidiploid wheat forms.
Biul. Inst. biol. AN BSSR no.5:280-288 '60. (MIRA 14:7)

(WHEAT BREEDING)

25

PHASE I BOOK INFORMATION

SOV/589

Vasili'ev, Mikhail Vasili'yevich, and Sergey Zakharovich Gasharov
 Report on XXI Vek: my zapiski: russkaya stranitsa chetyreti' godyat'.
 sovetskiy uchebnyi o nauchno i tekhnicheskoye (Reports
 From the Twenty-First Century Stories of Twenty-Four Years Soviet
 Scientists on Science and Engineering of the Future) [Moscow]
 Sovetskaya Nauka, 1958. 243 p. 50,000 copies printed.

Ed.: V. A. Golubkov; Tech. Ed.: I. Klyueva.

PURPOSE : This book is intended for the general reader.

COVERAGE : The book contains 27 articles (told reporters by prominent scientists) dealing with problems, future programs in physics, chemistry, electronics, metallurgy, engineering, medicine, biology, agriculture, zoology, transportation, exploration of space and photography. Attention is given to automation, automation of oil fields, atomic electric stations, new metals, modernization of oil fields, atomic bombs, production of metal parts by the process of explosion, explosions, card-27

SOV/589

Reports From the Twenty-First (Cont.)
 In dam construction, cancer, internal longwave reserves, treatment by ultrasonic diagnosis of illnesses, coronary heart disease, human body bands, sonic vibrations, mechanical heart substitutes, human body, medical engineering, enriched fodder, superstitious, artificial animals, agriculture vs. "rare" culture, radioelectronics, more, by automobile power, cars vs. wire machines doing intellectual work, by automobile power, "radio motors", artificial sun (electromagnetic rays), focused above a city which cause heated molecules to disintegrate, future ocean ships, railway dredgeboats, Moscow to China, future pavements, wheelless and driverless automobiles, electric cameras, the industrialization of Siberia, use of underground boat, climate control, living on the moon, antimatter, and photon jet. Names of the interviewed scientists are given. There are no references.

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INTRODUCTION
 Mission Into the Future
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Reports From the Twenty-First (Cont.)
 Letter to Braun [M. M. Kostyukov, Academician]

SOV/589

THE FUNDAMENTAL AND MOST IMPORTANT THEMES

Transformation of Elements -- the Future of Metallurgy [I. P. Barinov, Academician, Vice-President, AS USSR]
 When Are Breeding Their Last [N. S. Gorshkov, Director of Vsesoyuznyi nauchno-issledovatel'skyi in-t "Podzemnaia" -- All-Chemical Scientific Research Institute of Underground Gasification of coal -- and N. A. Fedorov, Deputy Director for the Scientific Design] 34

Automatic Oil Field [G. I. Kirilenko, Academician, and N. A. Kapayevskiy, Corresponding Member, AS USSR] 45
 From the Sources [A. V. Vinograd, Academician] 51

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Reports From the Twenty-First (Cont.)

SOV/5494

Designers of Living Things [A. R. Zhebrak, Professor, Member,
AS BSSR]

109

THE AGE OF RADIO

The Second Fifty Years in the Life of Radio [V. A. Kotel'nikov,
Academician]

121

The Revolution in Intellectual Work Has Begun [S. A. Lebedev,
Academician, Head of Institut tochnoy mekhaniki i vychislitel'noy
tekhniki -- Institute of Precision Mechanics and Computing
Technique, AS USSR]

129

Man Will Kindle an Artificial Sun [G. I. Babat, Professor]

135

The Second Window Into the Universe [V. L. Ginzburg, Corre-
sponding Member, AS USSR]

145

Card 5/7

ZHIREK, A.R.

Polypliody in wheat. Biul. Inst. biol. AN BSSR no.3:220-221 '58.
(WHEAT) (POLYPLOIDY) (MIRA 13:7)

ZHEBRAK, A.R., akademik

New buckwheat variety for White Russia. Vestsi AN BSSR. Ser.
brial. nav. no.3:41-46 '59. (MIRA 12:12)

1.АН БССР.
(White Russia--Buckwheat--Varieties)

ZHEBRAK, Anton Romanovich, prof., akademik; L'YOV, N.A., red.;
SENCHILO, A.K., tekhn.red.

[A course in botany] Kurs botaniki. Moskva, Gos.izd-vo
med.lit-ry, 1959. 523 p. (MIRA 13:2)

1. AN BSSR (for Zhebrak).
(Botany)

ZHEBRAK, A. R.

Synthesis of new wheat varieties. Moskva, Sel'khozgiz, 1944. 53 p. (Moskovskaya
ordena Lenina Sel'skokhoziaistvennaya akademiiia imeni K. A. Timiriazeva. Trudy, t. 6,
vyp. genetiki.)

ZHEBRAK, A. R.

PA 77T47

USSR/Medicine - Wheat
Medicine - Hybrid

May 1948

"The Sesquidiploids of Hard Wheats," A. R. Zhebrak,
Active Mem, Acad Sci Belorussian SSR, Moscow Agr Acad
imeni K. A. Timiryazev, 4 pp

"Dok Ak Nauk SSSR" Vol LX, No 4

Describes sesquidiploids of *Triticum durum*, first produced by author in 1946 by crossing amphidiploids *T. durum* x *T. Timopheevi* ($2n=56$) with *T. durum* ($2n=28$). Tabulates characteristics of wheats thus produced. Further investigations are in progress. Submitted 2 Mar 1948.

77247

ZHEBRAK, A. R.

PA76T76

USSR/Medicine - Wheat
Medicine - Chromosomes

Jun 1948

"Sesquidiploids of Wheat," A. R. Zhebrak, Hui Man,
Acad Sci Belorussian SSR, Moscow Agr Acad imeni
K. A. Timiryazev, 4 pp

"Dok Ak Nauk SSSR" Vol LX, No 7

Describes research work to obtain, through the
medium of sesquidiploids, new types of wheat which
will have in one complex the balanced genes of
various forms of wheat. Submitted Apr 1948.

76T76

ZHEBRAK, A. R.

PA 3/50II

USSR/Agriculture - Wheat
Crossbreeding

"Experimental Reproduction of the Triticum Compactum Type of Wheat," A. R. Zhebrak, Active Mem,
Acad Sci Belorussian SSR, 4 pp

"Dok Ak Nauk SSSR" Vol LXVIII, No 2

Triticum compactum is supposed to have originated in Southwest Asia thousands of years before our era. Among experiments in crossbreeding, crossing T. turgidum with T. Timopheevi produced plants with spikes of T. compactum in four generations. Obtaining it experimentally is of great interest theoretically and from synthetic-selection standpoint.

3/50II

ZHEBRAK, A. R.

Tri-Haploid Wheats-Rye Hybrids

Doklady Akademii Nauk SSSR, Novaya Seriya, Vol 78, No 4, 1951, pp773-776

U-3397 30 Apr 1953

GTR SPL No. 45

Zhebrak A.R. (White Russian Academy of Sciences and Moscow Pharmaceutical Institute),
Three species of hybrids of wheat, 321-4

Academija Nauk, S.S.R., Radilay No. 79, No. 1, 1951

ZHEBRAK, A.R.; ZHEBRAK, E.A.

Variability of intervarietal amphidiploids of buckwheat. Bot.zhur.
40 no.2:189-199 Mar-Apr '55. (MLRA 8:7)

1. Akademiya nauk BSSR. (Buckwheat)

USER/Biology - Pharmacology

Card 11 Sub 12 - 39/42

Authors : Zhebrak, A. N., Act. Member, Acad. of Sci., Byelor.

Title : Experimental investigation of the effect of

Periodical : Dok. AN BSSR, 1954, No. 1, p. 101-104.

Abstract : Experimental growing of different types of plants in the conditions of increased temperature and humidity.

Institution : Acad. of Sci., Byelorussian S.S.R. and Pharmacological Institute, Minsk

Submitted : December 17, 1954

USSR/ Biology - Genetics

Card 1/1 Pub. 22 - 39/49

Author(s) : Zhebrak, A. R., Act. Member, Acad. Sci. of Byelorussian SSR; and Tsvetkov, E. A.

Title : Development of triticele in buckwheat amphiploids

Periodical : Dok. AN SSSR 102/1, 157-160, May 1, 1955

Abstract : Biological data are given on the metamorphosis of buckwheat amphiploids. Two USSR references (1944 and 1955), Table.

Institution : Acad. of Sc. Belarusian SSR Institute of Botany, Minsk, USSR

Submitting : December 10, 1954

ZHEBRAK, A.H.

The nature of grafting in higher plants. Bot zhur. 41 no.3:
358-370 Mr '56. (MLRA 9:8)

1. Akademiya nauk BSSR, Moskovskiy farmaceuticheskiy institut.
(Grafting)

ZHEBRAK, A.R.

Effect of grafting on the development of hereditary characters in
the pea (*Pisum sativum*). Dokl.AN SSSR 106 no.6:1102 F '56.(MIRA 9:7)

1.Deystvitel'nyy chlen AN BSSR.
(Peas) (Genetics)

ZHEBRAK, A.R., akademik.

Effect of grafts on seed progeny and segregation of F_2 hybrids.
Dokl.AN SSSR 107 no.2:325-327 Mr '56. (MIRA 9:7)

I.Akademiya nauk BSSR i Moskovskiy farmatsevticheskiy institut.
(Genetics) (Hybridization, Vegetable) (Peas)

ZHEBRAK, Anton Romanovich, prof., akademik; AVDUSINA, Ye.I., red, Issd-va;
RYLINA, Yu.V., telmn.red.

[Polyploid species of wheat] Poliploidnye vidy pshenits. Moskva,
Issd-vo Akad. nauk SSSR, 1957. 123 p. (MIRA 11:2)

1. Akademiya nauk BSSR (for Zhebrak)
(Wheat--Varieties)

ZHEBRAK, A.R.

Scientific achievements help in producing new varieties of wheat.
Tekh. mel. 25 no.5:37 My '57. (NIRA 10:6)

1. Deystvitel'nyy chlen Akademii nauk Belorussekey SSR.
(Wheat breeding)

ZHEPRAK, A.R.; NIKOL'SKIY, Yu.K.

Behavior of amphidiploid wheat after late fall sowing. Bot.;
issal. Bel. otd. VBO no.5:31-44 '63. (MIRA 17:5)

ZHEBRAK, E.A.

Intensity of photosynthesis in diploid and tetraploid
buckwheat. Vestsi AN BSSR. Ser. biial. nav. no.1:81-86 '64.
(MIRA 17:6)

ZHEBRAK, E.A.

Frost resistance of the sprouts of diploid and tetraploid buckwheat.
Biul. Glav. bot. sada no. 44:87-90 '61. (MIRA 15:2)

1. Glavnnyy botanicheskiy sad AN SSSR.
(Buckwheat--Frost resistance)

ZHEBRAK, E.A.

Photoperiodic reactions in tetraploid and diploid buckwheat plants.
Vestsi AN BSSR; Ser. biol. nav. no.3:47-50 '59.

(MIRA 12:12)

(Buckwheat) (Photoperiodism) (Polyploidy)

ZHEBRAK, E.A.

"Features of the Development of Diploid and Tetraploid Polygonum
(Grechikha)";

dissertation for the degree of Candidate of Biological Sciences
(awarded by the Timiryazev Agricultural Academy, 1962)

(Izvestiya Timiryazevskoy Sel'skokhozyaystvennoy Akademii, Moscow, No. 2,
1963, pp 232-236)

17 (4), 30 (1)

AUTHOR:

Zhebrak, E. A.

SOV/20-120-1-47/58

TITLE:

The Photoperiodic Reaction in Tetraploid and Diploid Buckwheat

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 1, pp 176-178 (USSR)

ABSTRACT:

In working out the agricultural engineering of polyploid buckwheat cultures in Belorussian SSR (Ref 4), the author investigated the photoperiodic reaction of tetraploid buckwheat. In most species polyploid plants differ from their diploid parents by a longer vegetation period. Experiments were made with polyploid buckwheat experimentally developed by A. R. Zhebrak in 1947. The vegetation period of this polyploid (amphidiploid intermediary species) under field conditions was 86 to 95 days, in some years even longer, according to the time of sowing. During the investigation of the photoperiodic reaction it became possible to determine the general duration of the vegetation period of polyploid forms of buckwheat and the degree of its prolongation in comparison with original diploids. The observations allow the following conclusions: 1) Diploid and tetraploid buckwheat (*fagopyrum esculentum*) of the western ecological type are plants of "the long day". A reduction of daylight to 9 hours checks the development of the vegetative matter, stops the plant from

Card 1/2

The Photoperiodic Reaction in Tetraploid and Diploid Buckwheat

SOV/20-126-1-47/58

flowering and reduces its fructification. 2) Shorter hours of daylight make diploid buckwheat flower later than tetraploid. The latter has greener leaves and flowers earlier, even in the dark. 3) Fructification is quicker in diploids than in tetraploids. The vegetation period of tetraploid forms is longer due to a longer flowering period. Fructification progresses intensively in tetraploid plants, also in the second half of the vegetation period. 4) Moisture and nutritious matter increase the productivity and the yield of tetraploid plants. 5) For competitions of species, tetraploid plants should only be gathered when completely ripe. There are 1 table and 5 references, 2 of which are Soviet.

PRESENTED: May 11, 1959, by V. V. Sukachev, Academician

SUBMITTED: May 10, 1959

Card 2/2

ZHEBRAK, A.R.; ZHEBRAK, E.A.

Variability of intervarietal amphidiploids of buckwheat. Bot. zhur.
40 no.2:189-199 Mar-Apr '55. (MIRA 8:7)

1. Akademiya nauk BSSR. (Buckwheat)

USCA/ Biology - Services

Card 21 Pus. 22 - 39 49

Author(s) T. A. G. S. A. M. VET

Title *Reproduction of the*

Periodical Dok. AN SSSR 102/1, 157-160, May 1, 1955

Abstract Biological data are given on the relationship of reproduction and diel activity of the *U. F.* coleoptera *Amara*.

Submitted December 4, 1954

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064630004-6

ZHEERAK, E.A.

Problems in cultivation practices of amphidiploid buckwheat in
White Russia. Vestsi AN BSSR Ser.biol.nav. no.1:57-67 '56.
(White Russia--Buckwheat) (MLRA 9:9)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064630004-6"

ZHEBRAK, E.A.

Use of histochemical methods in studying legitimate and illegitimate pollination in buckwheat (*Fagopyrum esculentum* Moench). Dokl. AN SSSR 135 no.1:204-206 N '60. (AIRA 13:11)

1. Predstavлено академиком V.N.Sukachevым.
(Fertilization of plants) (Buckwheat) (Heterostylism)

KONSTANTINOV, N.N.; ZHEBRAK, E.A.

Photoperiodism in diploid and tetraploid coriander. Dokl. AN
SSSR 150 no.5:1149-1152 Je '63. (MIRA 16:8)

1. Glavnyy botanicheskiy sad AN SSSR. Predstavлено akademikom
A.L.Kursanovym.
(CORIANDER) (PHOTOPERIODISM) (POLYPLOIDY)

ZHEBRAK, E.A.

Embryological and histochemical study of fertilization in
diploid and tetraploid buckwheat. Biul. Glav. bot. sada no.41:
73-79 '61.
(MIRA 14:11)

1. Glavnnyy botanicheskiy sad AN SSSR.
(Buckwheat)
(Fertilization of plants)
(Polyploidy)

ZHEBRAK, E.A.

Embryological study of transpollination between diploid and
tetraploid buckwheat. Dokl. AN SSSR 150 no.3:657-660 My '63.
(MIRA 16:6)

1. Predstavleno akademikom V.N. Sukachevym.
(Buckwheat) (Fertilization of plants)
(Polyploidy)

ZHEBRAK, L.

Change the form of the title record. Den. 1 kred, 20 no.10:61-62
0 '62. (MIRA 15:12)

1. Kreditnyy inspektor Novo-Moskovskogo otdeleniya Gosbanka
Dnepropetrovskoy oblasti.
(Construction industry—Accounting)

ZHEZRAK, L.

Several problems of issuing credit to trade organizations.
Den. i kred. 21 no.12:64-68 D '63. (MIRA 17:1)

1. Starshiy ekonomist Novomoskovskogo otdeleniya Gosbanka
Dnepropetrovskoy oblasti.

ZHEBRAK, L.

Interest enterprises in raising their planned tasks. Den. i
kred. 21 no.3:21-23 Mr '63. (MIRA 16:3)

1. Starshiy ekonomist Novo-Moskovskogo otsteleniya Gosbanka
Dnepropetrovskoy oblasti.
(Credit) (Industrial management)

ZHEERAK, M. Prof.

"Cost -- The Universal Index," Prom.-Ekon. Gazeta, Moscow, 28 Mar 56

Moscow Inst. Economics and Statistics

Translation Sum. No.1084, 2 Oct 56

ZHEBRAK, M., Prof.

Accounting

Control over the use of materials in production. Bukhg. uchet 12, No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

Principles of cost analysis, Moskva, Sektor vedomstvennoi lit-ry ONTI NKTP, 1935.
115 p. (41-27067)

HF5686.08245

ZHEERAK, MOISEY KHARITONOVICH

Osnovy normativnogo metoda kal'kuliatsii. Moskva, Mashgiz, 1948. 195 p.

Fundamentals of the standardized method of calculation.

DLC: HF5(86,M325

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library
of Congress, 1953.

ZHEBRAK, M. Kh.

Zhebrak, M. Kh. - "Method for the analysis of costs," (Output of industrial enterprises), Uchen. zapiski (Mosk. ekon.-stat. in-t), Vol. I, 1948, p. 95-108

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

ZHEBRAK, M.Kh., redaktor; KASTANATEV, Kh.G., redaktor; BOCHAROV, G.G.,
redaktor.

[Calculating the expenditure and employment of materials in
machine-building factories] Uchet raskhoda i ispol'zovaniia materia-
lov na mashinostroitel'nykh zavodakh. Otvetstvennye red. M.Kh.Zheb-
rak, Kh.G.Kastanayev. Moskva, Gos. nauchno-tekhn. izd-vo mashino-
stroit. i sudostroit. lit-ry, 1954. 262 p. (MLRA 7:8)

1. Dom inzhenera i tekhnika imeni F.E.Dzerzhinskogo, Moscow.
(Machinery industry--Accounting)

ZHEBRAK, M.Kh., redaktor; KALININ, T.V., redaktor; MATVEYEVA, Ye.N., tekhnicheskij redaktor; POPOVA, S.M., tekhnicheskij redaktor

[Calculating output and wages in a machine building plant] Uchet vyrabotki i zarabotnoj platy na mashinostroitel'nom zavode. Pod red. M.Kh.Zhebraka i T.V.Kalinina. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroitel'noi lit-ry 1955. 190 p. (MIRA 8:7)

1. Dom inzhenera i tekhnika imeni F.E.Dzerzhinskogo, Moscow.
(Machinery industry--Accounting)

KOZLOV, T.I., prof., otv. red.; BREGEL', E.Ya., prof., red.; BUKH, Ye.M., dots., red.; ZHEBRAK, M.Kh., prof., red.; ISAKOV, V.I., dots., red.; FREYMUNDT, Ye.N., dots., red.; SHIFMAN, A.G., dots., red.; SHCHAPINA, T.A., dots., red.; SHEVCHUK, A.V., kand. ekonom. nauk, red.; SHENTSIS, Ye.M., red.; PYATAKOVA, N.D., tekhn. red.

[Problems in statistics and accounting] Voprosy statistiki i ucheta. Moskva, Gosstatizdat, TGU SSR, No.3. [Collection of articles on labor productivity statistics in industry] Sbornik statei po statistike proizvoditel'nosti truda v promyshlennosti. 1961. 145 p. (MIRA 14:8)

1. Moscow. Ekonomiko-statisticheskiy institut.
(Productivity—Accounting)

ZHEERAK, Moisey Kharitonovich, red.

[Course in accounting and balance analysis] Kurs bukhgalterskogo
ucheta i analiza balansov; dopushcheno v kachestve uchebnogo posobiya
dlia ekonomiko-statisticheskikh fakul'tetov vuzov. Moskva, Gos-
statizdat, 1960. 399 p.
(Accounting)

KOZLOV, T.I., prof., doktor ekon.nauk, otv.red.; BREGEL', E.Ya., prof., doktor ekon.nauk, red.; BUKH, Ye.M., dotsent, kand.ekon.nauk, red.; ZHEBRAK, M.Kh., prof., doktor ekon.nauk, red.; ISAKOV, V.I., dotsent, kand.ekon.nauk, red.; FREYMUND, Ye.N., dotsent, kand.ekon.nauk, red.; SHEVCHUK, A.V., kand.ekon.nauk, red.; SHIFFMAN, A.G., dotsent, kand.ekon.nauk, red.; SHCHAPINA, T.A., dotsent, kand.ekon.nauk, red.; USTIYANTS, V.A., red.; MILENT'YEV, A.M., tekhn.red.

[Problems in statistics and accounting; a collection of articles on machine accounting] Voprosy statistiki i ucheta; sbornik statei po mekhanizatsii ucheta. Moskva, Gos.stat.izd-vo. No.2. 1959. 350 p. (MIRA 13:6)

1. Moscow. Ekonomiko-statisticheskiy institut.
(Machine accounting)

ISOFIDI, I.Ye.; IVANOVA, Zh.P.; ZHEBRAK, V.D.; BERSHTEYN, N.V.

Operation of an electric desalter on a nonionogenic oxyethylene
fatty acid demulsifier. Nefteper. i neftekhim. n.5:3-5 '64.
(MIRA 17:8)

1. Sajavatskiy kombinat i Vsesoyuznyy nauchno-issledovatel'skiy
institut po pererabotke nefti i gazov i polucheniyu iskusstvennogo
zhidkogo topliva.

ZHEBRAK, Moisey Kharitonovich, prof.; SHENTSIS, Ye.M., red.;
PLATAKOVA, N.D., tekhn.red.

[Course in industrial accounting] Kurs promyshlennogo ucheta.
Izd.8., perer. Moskva, Gos.stat.izd-vo, 1960. 398 p.
(Accounting) (MIRA 13:?)

ZHEBRAK, V.

When the freight is opened. Grazhd. av. 19 no.6:28 Je '62.
(MIRA 18:6)

KOZLOV, N.N.; SKVORTSOV, V.V.; OBYSOV, A.N.; OSIPENKO, Yu.K.;
KHOKHLOV, B.A., glav. red.; CHUPROV, D.P., nauchnyy red.;
VOSTROV, V.M., red.; DVIZHKOVA, N.M., red.; ZHEBRAKOV,
N.A., red.; ZLATOTSVETOVA, I.I., red.; RAGAZINA, M.F., red.;
FARADZH, N.O., red.; YEGOROVA, M.I., red.; MASLYANITSYNA,
N.I., red.; PETRIYAKOVA, T.D., red.

[Instruments, appliances, and mechanisms for assembling and
special work] Instrumenty, prispособления и механизмы для
монтажных и специальных работ. Москва, Vol.2. 1962. 226 p.
(MIRA 16:7)

1. Moscow. Gosudarstvennyy institut po vnedreniyu peredovykh
metodov rabot i truda v stroitel'stve.
(Construction equipment)

OSIPOVA, V.V., kand. tekhn. nauk; SHCHURKIN, P.N., inzh.;
GOLOMAN, I.R., red.; ZHEERAKOV, V.I., red.; TROFIMOVA,
L.A., red.

[Precast bearing framing of three-hinged reinforced concrete
frames in rural construction] Sbornye nesushchic karkasy iz
zhelezobetonnykh trekhsharnirnykh ram v sel'skom stroitel'-
stve. Moskva, Treest "Orgsovkhosstroi," 1963. 11 p.
(MIRA 18:4)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye po delam
sel'skogo i kolkhoznego stroitel'stva.

TOVBIN, M.V.; ZABUGA, V.Ya.; ZHEERATSKIY, S.N.

Catalytic activity of mechanical mixtures of α - and γ -iron
in the ammonia synthesis reaction. Ukr. khim. zhur. 31 no.9:
915-918 '65. (MIRA 18:11)

1. Kiyevskiy gosudarstvennyy universitet imeni T.G. Shevchenko.

ZHEBENYEV, G., inzhener.

More attention to the general education of miners. Mast.ugl.
5 no.4:29 Ap '56. (MIRA 9:7)

1.Otdel rabochikh kadrov tresta Korkimugol'.
(Education of adults) (Coal miners)

Zhebro

POLAND/General Section - History, Classics,
Personalities

A-2

Abs Jour : Referat Zhurn. Biol. No 16, 25 Aug 1957, 67868

Author : Zhebro
Title : Academician Aleksei Ivanovich Abrikosov.

Orig Pub : Patol. polska, 1956, No 1, 77-78

Abstract : No abstract.

Card 1/1

- 33 -

ZHEBRO, TADEUSH

Zhebro, Tadeush

"The state of the vessels of the lungs in infarct (roentgenoangiographic and histotopographic investigation)." First Moscow Order of Lenin Medical Inst imeni I. M. Sechenov. Moscow, 1956 (dissertation for the degree of Candidate in Medical Sciences)

Knizhnaya letopis'
No. 35, 1956. Moscow

BYKOVA, N.A.; ZHEBRO, T.F.; SEROV, V.V. (Moskva)

Role of thrombosis and embolism in the development of infarcts
(statistical data based on autopsy material of the Sechenov
First Moscow Medical Institute. Arkh. pat. 21 no.9:29-35 '59,

(MIRA 14:8)

1. Iz kafedry patologicheskoy anatomii (zav. - chlen-korrespondent
AMN SSSR prof. A.I.Strukov) I Moskovskogo ordena Lenina meditsin-
skogo instituta imeni I.M.Sechenova.

(THROMBOSIS) (EMBOLISM) (INFARCTION)

EXCERPTA MEDICA Sec 18 Vol. 2/1 Cardiovas. dis. Jan 58

161. ZHEBRO T. F. *The vascular bed of the lung in normal and pathological conditions (Russian text)* Aīkh. Patol. 1957, 19/3 (38-45) Illus. 8

The pulmonary vascular bed was examined in autopsy material from patients who had died from various diseases or from sudden trauma. The lungs were injected with lead carbonate in 3% gelatin, angio-roentgenograms were prepared, and tissue blocks were then removed for histological study. Contrary to statements in the literature, it was found that occasional noncapillary anastomoses between branches of the pulmonary artery exist both normally and under pathological conditions. In chronic passive congestion the lumen of these anastomotic vessels becomes larger and there is an increase in the number and size of anastomoses between the bronchial and pulmonary arteries. Similar vascular changes are evoked by infarcts; in addition, in the presence of large infarcts pleural anastomoses from mediastinal arteries and so-called 'paravascular' anastomoses develop. The latter represent an auxiliary vascular meshwork which envelops the larger arteries and veins and whose existence has been demonstrated by Russian workers in the lungs, liver, spleen and in other organs. Healing of the pulmonary infarct leads to permanent changes in the vasculature, chiefly dilatation and structural alteration of the bronchial arteries with anastomoses to pulmonary arteries.

Wilson - Dearborn, Mich. (V. 15, 18)

ZHEDOV, I.

BYKOVA, N.A.; ZHEDOV, T.F.; SEROV, V.V.; SHAPIRO, I.M.

Method of angiography in pathological anatomy. Arkh.
pat. 17 no.3:71-72 J1-S '55. (MLRA 8:12)

1. Iz kafedry patologicheskoy anatomii (zav.-chlen-korrespondent
AMN SSSR prof. A.P.Strukov) I Moskovskogo ordena Lenina
meditsinskogo instituta.

(ANGIOGRAPHY,
in pathol.)

(PATHOLOGY,
angiography in)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064630004-6

ZHEBRO, T.F.

"Patologia polska" [Polish Pathology], no.1, 1956. Reviewed by T.F.
Zhebro. Arkh.pat. 18 no.5:105-106 '56. (MIRA 9:12)
(TUMORS)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064630004-6"

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064630004-6

ZHEBRO, T.Y.

Patologia polska, 1956 no.2, 1956. Arkh. pat., 19 no.3:86-89
'57 (MLRA 10:5)
(PATHOLOGY--ABSTRACTS)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064630004-6"

EACERPTA MEDICA Sec 15 Vol. 10/11 Chest Diseases Nov 57

2649. ZHEBRO T.F. The vascular bed of the lung in normal and pathological conditions (Russian text) ARKH. PATOL. 1957, 19/3 (38-45) Illus. 8

The pulmonary vascular bed was examined in autopsy material from patients who had died from various diseases or from sudden trauma. The lungs were injected with lead carbonate in 3% gelatin, angio-roentgenograms were prepared, and tissue blocks were then removed for histological study. Contrary to statements in the literature, it was found that occasional non-capillary anastomoses between branches of the pulmonary artery exist both normally and under pathological conditions. In chronic passive congestion the lumen of these anastomotic vessels becomes larger and there is an increase in the number and size of anastomoses between the bronchial and pulmonary arteries. Similar vascular changes are evoked by infarcts; in addition, in the presence of large infarcts pleural anastomoses from mediastinal arteries and so-called 'paravascular' anastomoses develop. The latter represent an auxiliary vascular meshwork which envelops the larger arteries and veins and whose existence has been demonstrated by Russian workers in the lungs, liver, spleen and in other organs. Healing of the pulmonary infarcts leads to permanent changes in the vasculature, chiefly dilatation and structural alteration of the bronchial arteries with anastomoses to pulmonary arteries.

Wilson - Dearborn (V. 15, 18)

S/169/62/000/002/055/072
D228/D301

9,910

AUTHORS: Taran, V. I. and Zhebko, V. M.

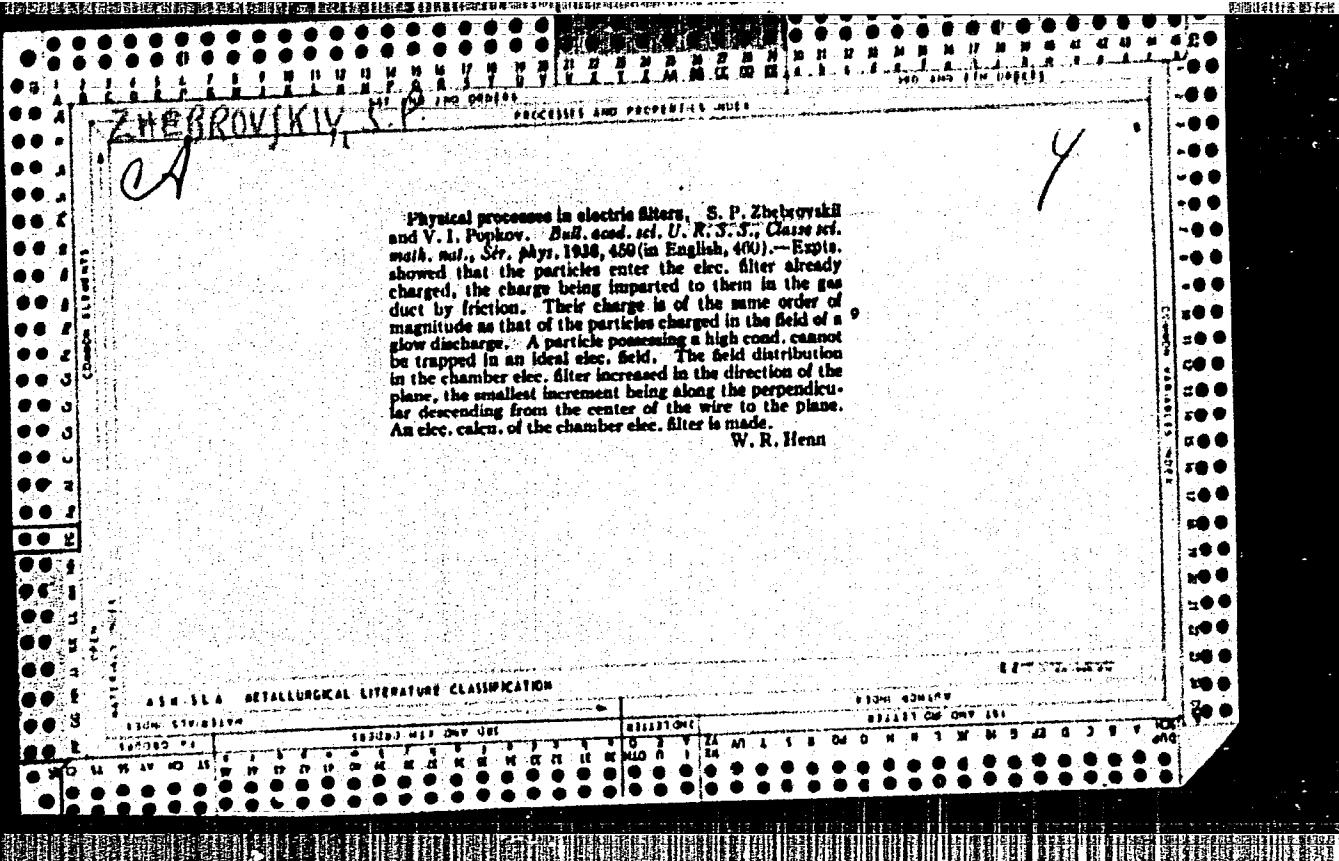
TITLE: Measurement of the drift speeds of heterogeneities in the E- and F-regions of the ionosphere in accordance with the IGY program

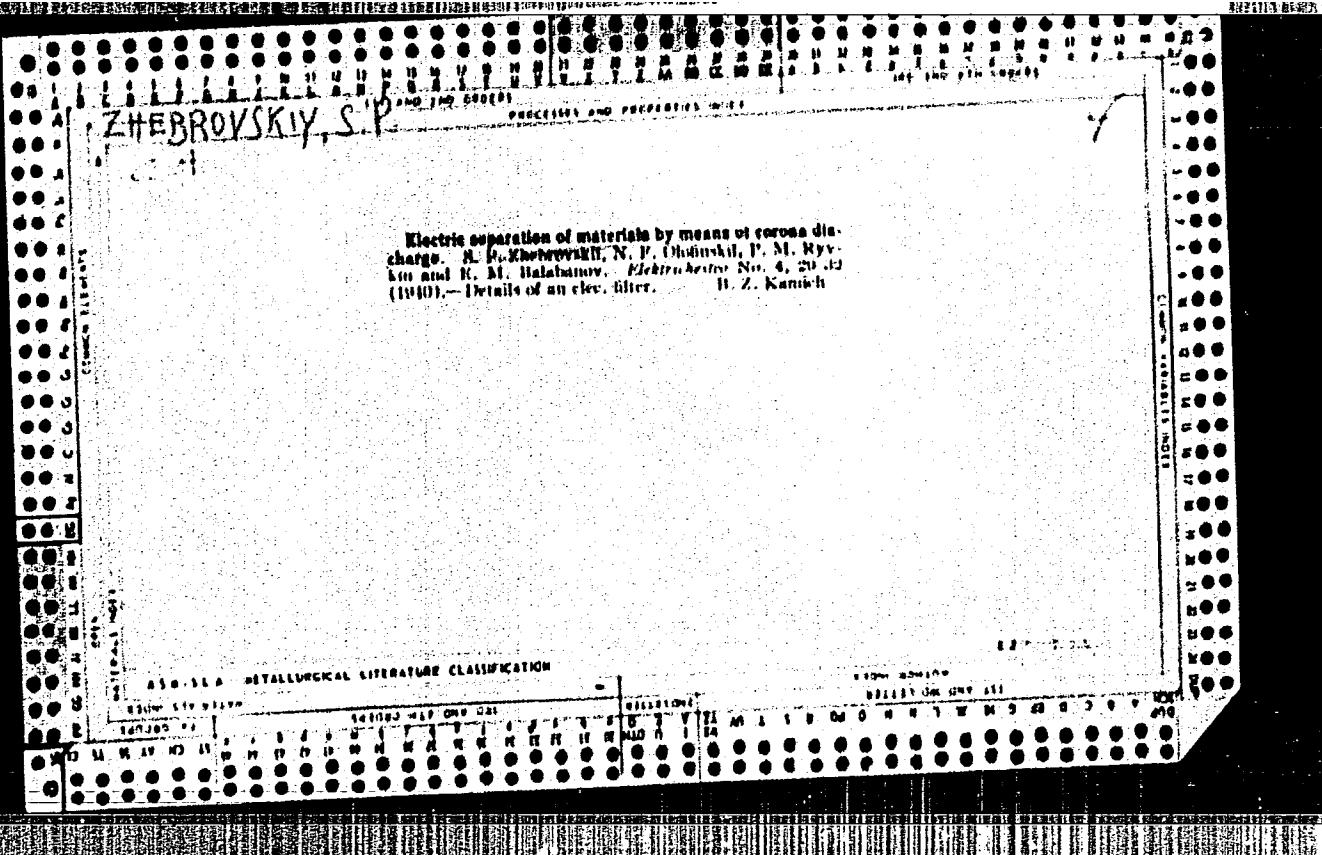
PERIODICAL: Referativnyy zhurnal, Geofizika, no. 2, 1962, 4, abstract 2G20 (Mezhdunar. geofiz. god. Inform byul., no. 3, 1961, 13-18)

TEXT: The results of experimental investigations of the drift speeds of heterogeneities in the ionosphere's E- and F-regions are given. The work was carried out in accordance with the IGY program from August 24, 1957, to November 1958 in the city of Khar'kov. It is established that heterogeneities drift regularly with speeds of 50-60 m/sec for the E-region and 80 - 90 m/sec for the F-region. The principal drift direction is south-easterly for the E-region and south-westerly for the F-region. /-Abstracter's note: Complete translation. /

B

Card 1/1





USSR/Farm Animals, General Frblems

Q-1

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 35592

Author : Zhgebenka R.

Inst : Not Given

Title : The Problems of the Improvement of Breeding Work (Voprosy uluchsheniya plodnosti raboty)

Orig Pub : Soc. Zemst. ukis, 1957, No 3, 18-22

Abstract : No abstract

Card : 1/1

ZHEBRAK, E.A.

Embryogenesis in diploid and tetraploid buckwheat. Dokl.
AN SSSR 135 no.2:475-477 N '60. (MIRA 13:11)

1. Predstavлено академиком V.N.Sukachevym.
(Botany--Embryology) (Polyploidy)

GAL'PERIN, B.M.; ISOFIDI, G.Ye.; KOPYLOVA, A.M.; ZHEHRAK, V.D.;
BELYAYEVA, Z.G.

Experience in desalting Arlan oil at the Salavat Combine.
Nefteper. i neftekhim. no.5:9-12 '65. (MIRA 17:8)

1. Salavatskiy kombinat.

USSR/Human and Animal Morphology - Normal and Pathological,
Circulatory System. S

Abs Jour : Ref Zhur Biol., No 11, 1958, 50270

Author : Zhebro, T.F.

Inst :

Title : On the Problem of the Vascular Canal of the Lung under
Normal and Pathological Conditions (Angio-roentgenographi-
cal and Histological Studies)

Orig Pub : Arkhiv patologii, 1957, 19, No 3, 38-45

Abstract : Anastomoses exist between bronchial and pulmonary arte-
ries, as well as between the branches of pulmonary ar-
teries, both under normal and under pathological condi-
tions. Thus, pulmonary arteries are not those of the
terminal type. In a congestive lung the number of anas-
tomoses is increased and their lumen is dilated. In the
infarcts, apart from this, pleural collaterals and the
"paravascular" channel appear. During cicatrization of

Card 1/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630004-6
USSR/Human and Animal Morphology - Normal and Pathological.
Circulatory System.

Abs Jour : Ref Zhur Biol., No 11, 1958, 50270

infarcts the capillaries are transformed into great
caliber vessels. -- Ye.V. Ryzhkov.

Card 2/2

KANTOR, Sera Mikhaylovna; MIKHEYEVA, Ol'ga Vasil'yevna;
ZHEBROVSKAYA, A., red.; VAYSMAN, N., red. izd-va;
CARINA, T., tekhn. red.

[German-Russian dictionary of most commonly used words in
technical literature] Nemetsko-russkii slovar'-minimum ob-
shchepotrebitel'nykh slov v tekhnicheskoi literature. Mo-
skva, 1963. 29 p. (MIRA 16:6)

(German language--Dictionaries--Russian)
(Technology--Terminology)

GYUL' NAZARYAN, I.M.; ZHEBROVSKAYA, I.F.

Role of psychogenia in the etiology of mental disorders in cerebral
atherosclerosis. Trudy Gos. nauchno-issl. inst. psikh. 22:98-107
'60. (MIRA 15:1)

1. Klinika sosudistykh psikhozov (zav. - prof. V.M.Banshchikov)
Gosudarstvennogo nauchno-issledovatel'skogo instituta psichiatrii
Ministerstva zdravookhraneniya RSFSR i Tambovskaya psikhoneurologiche-
skaya bol'nitsa (glavnnyy vrach - zasluzhennyy vrach RSFSR A.M.
Pisnaritskaya).

(CEREBRAL ARTERIOSCLEROSIS)
(MENTAL DISORDERS)

GYUL'NAZARYAN, I.M.; ZHEBROVSKAYA, I.F.

Study of heredity in patients with cerebral atherosclerosis. Trudy
Gos. nauchno-issl. inst. psikh. 22:108-116 '60. (MIR 15:1)

1. Klinika sosudistyh psikhozov (zav. - prof. V.M.Banshchikov)
Gosudarstvennogo nauchno-issledovatel'skogo instituta psichiatrii
Ministerstva zdravookhraneniya RSFSR i Tambovskaya psikhoneurologicheskaya bol'nitsa (glavnyy vrach zasluzhennyj vrach RSFSR A.M.
Pisarnitskaya).
(CEREBRAL ARTERIOSCLEROSIS) (HEREDITY OF DISEASE)

ACC NR: AP 6034039 (N) SOURCE CODE: UR/0396/66/010/005/0058/0059

AUTHOR: Zhebrovskaya, N. Ye.; Tsybulyak, G. N.

ORG: Department of Physiology /Head-Doctor of Medical Sciences L. V. Donskaya/ Central Scientific Research Laboratory of the Leningrad Sanitary Hygienic Medical Institute (Otdel fiziologii Tsentral'noy nauchno-issledovatel'skoy laboratorii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta); Chair of Military Field Surgery /Chief-Professor A. N. Berkutov/ Military Medical Order of Lenin Academy im. S. M. Kirov (Kafedra voyenno-polevoy khirurgii Voyenno-meditsinskoy ordena Lenina akademii)

TITLE: Cholinesterase activity and its localization in the spinal cord of rabbits in experimental tetanus

SOURCE: Patologicheskaya fiziologiya i eksperimental'naya terapiya, v. 10, no. 5, 1966, 58-59

TOPIC TAGS: tetanus, CNS activity, cholinesterase activity, brain tissue, rabbit, histology, infective disease, nervous system disease

ABSTRACT: In tetanus there are destructive changes in brain tissue supposedly associated with changes in cholinesterase activity. To test this theory and to pinpoint cholinesterase activity changes, the authors

UDC: 616.981.551-092.9-07:616.832-008.931-
-07

Card 1/2

ACC NR: AP6034039

compared results of physiological and histological tests on rabbits infected with tetanus and those not infected. Cholinesterase activity was demonstrated histologically in the medulla oblongata. Activity was higher in the incubation period than in either localized or general tetanus, but lower than that of uninfected rabbits. The enzyme is spread unevenly throughout the cytoplasm. The cells took on atypical forms during the course of the disease. During the incubation period the cholinesterase content lowered as much as 23% but no additional evidence was found to indicate that this decreased activity played a role in the development of the disease, rather whatever mechanism is responsible for inhibiting the hydrolysis of acetylcholine and causes its accumulation in the central nervous system plays a deciding role.
Orig. art. has: 1 table and 1 figure. [W.A. 50]

SUB CODE: 06/ SUBM DATE: 16Jun65/ ORIG REF: 003/ OTH REF: 003

Card 2/2

ZHEBROVSKAYA, N.Ye. (Leningrad)

Histochemical change in the distribution of cholinesterase in the spinal cord and spinal ganglia of the rabbit in experimental tetanus intoxication. Arkh. rat., 27 no.10:71-73 '65.

(MIRA 18:10)

1. Tsentral'naya nauchno-issledovatel'skaya laboratoriya Leningradskogo sanitarno-epidemiicheskogo meditsinskogo instituta (nauchnyy rukovoditel' - doktor med.nauk I.V.Donskaya).

AFANAS'YEV, N.S.; ZHEBROVSKAYA, T.F.; PAVLOVSKIY, V.I.

Studying ultrasonic propagation velocity in rocks. Biul.nauch.-
tekhn.inform VIMS no.1:45-51 '63. (MIRA 18:2)

1. Kurskaya geofizicheskaya ekspeditsiya.

ACCESSION NR: AR4015489

8/0169/63/000/012/G005/G005

SOURCE: RZh. Geofizika, Abs. 12G40

AUTHOR: Afanas'yev, N. S.; Zhebrovskaya, T. F.; Pavlovskiy, V. I.

TITLE: Study of the propagation of ultrasound in rocks

CITED SOURCE: Byul. nauchno-tekh. inform. Gos. geol. kom-t SSSR. Otd. nauchno-tekh. inform. VIMSa, no. 1 (45), 1963, 45-51

TOPIC TAGS: ultrasound in rocks, propagation of ultrasound, rock samples, seismoscope, elastic properties of rock, vibrations in rock, velocity of sound

TRANSLATION: A determination of the elastic properties of rock taken from sedimentary layers in the KMA [Kursk Magnetic Anomaly] is made. The measurements were made on the UZS-2 seismoscope. Samples were 6-8 cm. The velocity of ultrasound was measured along the layering of the samples and sometimes at right angles to the layering. The mean square error in determining the velocity was \pm 45 m/sec. The following conclusions were made: 1) the propagation speed of elastic vibrations in different rock from sedimentary layers of the KMA depends on the depth of occurrence, the age and structural-lithological peculiarities of the region; 2) for

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ACCESSION NR: AR4015489

rocks having the same lithological composition and age an increase in velocity with depth of occurrence was noted; 3) the speed of ultrasound in similar rocks with identical depth of occurrence depends on age; 4) a relationship between the speed of ultrasound and density was observed for the rocks which were studied; 5) a different velocity in separate parts of similar rocks does not permit extending the obtained data from one part to another of the rock; 6) a difference in speed values was noted which is obviously connected with the degree of compaction.

DATE ACQ: 09Jan64

SUB CODE: AS, PH

ENCL: 00

Card 2/2

STRUNGE, B.N.; ZHEBROVSKIY, A.F., konstruktor.

6D100 engine for diesel locomotives. Elek. i topl. tiaga 4 no.11;
29-31 N '60. (MIRA 13:12)

1. Glavnyy konstruktor po dizelestroyeniyu Khar'kovskogo zavoda
transportnogo mashinostroyeniya (for Strunge).
(Diesel engines) (Diesel locomotives)